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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/724,755	11/28/2000	Hans-Michael Wenz	7414.0020-03	8421	
22852 7:	590 04/01/2004		EXAMINER		
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER			FREDMAN, JEFFREY NORMAN		
LLP 1300 I STREET	ΓNW		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20005			1637	*	
			D. T. M. H. ED. 04/01/200		

DATE MAILED: 04/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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Application No.	Applicant(s)		
09/724,755	WENZ, HANS-MICHAEL		
Examiner	Art Unit		
Jeffrey Fredman	1637		

Office Action Summary		09/724,755	24,755 WENZ, HANS-MICHAEL			
		Examiner		Art Unit		
		Jeffrey Fredma	n	1637		
Period fo	- The MAILING DATE of this communication app r Reply	ears on the cove	r sheet with the c	orrespondence address		
THE N - Extens after S - If the p - If NO - Failure - Any re	PRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 (6)X (6) MONTHS from the mailing date of this communication. Deriod for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, uply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, how within the statutory mill apply and will expire cause the application	vever, may a reply be tim inimum of thirty (30) days o SIX (6) MONTHS from to become ABANDONEI	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).		
31atus 1)⊠	Responsive to communication(s) filed on <u>05 F</u>	ehruary 2004				
2a)⊠	•	is action is non-	final			
, <u> </u>	Since this application is in condition for allowa			osecution as to the merits is		
3) Disposition	closed in accordance with the practice under long of Claims	Ex parte Quayle	, 1935 C.D. 11, 4	53 O.G. 213.		
4)⊠	Claim(s) 131-134 is/are pending in the applica	ition.				
•	4a) Of the above claim(s) is/are withdrav		ration.			
	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>131-134</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)[Claim(s) are subject to restriction and/or	r election require	ement.			
Application	on Papers					
9)□ ٦	he specification is objected to by the Examine	r.				
10)□ Т	The drawing(s) filed on is/are: a)□ accep	oted or b) objec	ted to by the Exar	miner.		
	Applicant may not request that any objection to the					
11) <u> </u>	he proposed drawing correction filed on	_is: a)□ approv	ed b)⊡ disappro	ved by the Examiner.		
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority u	nder 35 U.S.C. §§ 119 and 120					
13)	Acknowledgment is made of a claim for foreign	priority under 3	s5 U.S.C. § 119(a)-(d) or (f).		
a)[☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority documents	s have been rec	eived.			
	2. Certified copies of the priority documents have been received in Application No					
	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received.						
	Acknowledgment is made of a claim for domesti					
Attachment(s)						
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	4) _ 5) <u></u>		/ (PTO-413) Paper No(s) Patent Application (PTO-152)		

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DETAILED ACTION

Status

Claims 131-134 are pending.

Claims 131-134 are rejected.

Any rejection which is not reiterated in this action is hereby withdrawn as no longer applicable.

Claim Interpretation

- 1. In claims 131-134, the term "amplification product" is read as a nucleic acid that is not chemically synthesized. Since DNA or RNA can be amplified, in either single stranded (as in asymmetric PCR) or double stranded form (as in regular PCR or in mini or maxi preps from E. coli, for example), any non chemically synthesize DNA will meet the requirement of being an "amplification product."
- 2. In claims 131-134, the term "addressable support specific portion" is interpreted as a nucleic acid that can bind a complementary nucleic acid probe. Any nucleic acid sequence whatsoever can meet this limitation since any nucleic acid sequence can hybridize to the complementary sequence by Watson-Crick base pairing.
- 3. In claims 131-134, the term "mobility modifier" is read (in context of the claim that requires at least two such modifiers) as requiring two nucleic acids that can bind to two different "amplification products" (as broadly defined above) which differ either in their length, or in the label that is attached to them. Applicant is correct that the limitation can be even broader than interpreted above. However, the above explanation is intended to indicate how the prior art cited below is applied.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 131-134 are rejected under 35 U.S.C. 102(b) as being anticipated by Friedhoff et al (Anal. Biochem. (1993) 215:9-16).

Friedhoff teaches a composition comprising

- (i) a plurality of different amplification products (see page 11, figure 1 and page 12, column 1, subheading "Polymerase Chain Reaction", where there are two different amplification products, with either a AT or GC basepair at the SNP site) which comprise;
 - (a) a first primer specific portion (see page 12, column 2, where both different amplification products are amplified using a common upstream primer),
 - (b) a second primer specific portion (see page 12, column 2, where both different amplification products are amplified using a common downstream primer)
 - (c) and an addressable support specific portion, between the primer specific portions that is different for each of the amplification products (see page 11, figure 1, where one amplification product has an AT basepair and the other a GC basepairs that is distinct)

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and

(ii) at least two different mobility modifiers, (see figure 1 and page 12, where the two probes, the Fluorescein labeled and digoxigen labeled probes that bind to the addressable support specific portion represent two different sequence specific mobility modifiers) which further comprises:

- (a) a tag complement for specifically binding the addressable support specific portion of one of the plurality of different amplification products (See figure 1 and page 12, where the two probes each bind to the proper amplified PCR products),
- (b) a tail which imparts to each mobility modifier a distinct mobility relative to the other mobility modifiers (see figure 1 and page 12, where each of the probes has a different chemical label with a different molecular mass that would result in a different mobility, one of which is fluorescein, the other of which is digoxigenin)

With regard to claim 132, all of the addressable support specific portions are substantially the same length (see figure 1, and page 10 where each probe is 24 nucleotides in length),

With regard to claim 133, each of the mobility modifiers has a label, one of which is digoxigenin, the other of which is fluorescein (see page 10, column 2 and figure 1).

With regard to claim 134, the second primer specific portion is the same for each different amplification product (see figure 1 and page 12).

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Response to Arguments

6. Applicant's arguments filed February 5, 2004 are moot in view of the new grounds of rejection.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey Fredman whose telephone number is (571)272-0742. The examiner can normally be reached on 6:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on (571)272-0782. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeffrey Fredman Primary Examiner Art Unit 1637